2017-2021 American Community Survey (ACS) 5-Year Estimates

Pre-Release Webinar

December 1, 2022

Webinar Recording and Materials

census.gov/data/academy/webinars/2022/2017-2021-acs-pre-release-webinar.html



The American Community Survey Press Kit and QR Codes



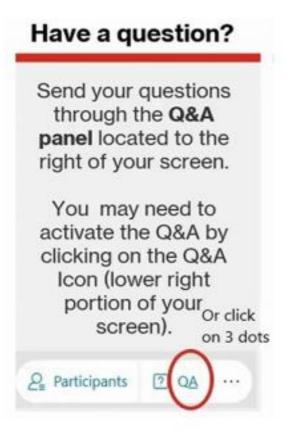
Scan QR codes throughout the webinar to access resources

Press kit and slides are available at

https://www.census.gov/newsroom/press-kits/2022/acs-5-year.html



WebEx Q&A Feature





The American Community Survey Speakers

Host Jewel Jordan

Public Affairs Specialist

Public Information Office

Presenter | Charles Gamble

Supervisory Survey Statistician

American Community Survey Office



The American Community Survey Outline

- Upcoming ACS Data Releases
- ACS Basics
- Changes for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
- ACS Website & Resources Demo
- Q&A



The American Community Survey 2017-2021 ACS 5-Year Release Schedule



MEDIA EMBARGO: Tuesday, December 6, 2022

- Embargo at 10 a.m. (EST), includes 2017-2021 ACS 5-year estimates:
 - 5-year data products

Press Kit: census.gov/newsroom/press-kits/2022/acs-5-year.html

PUBLIC RELEASE: Thursday, December 8, 2022

- Data released at 10 a.m. (EST), includes 2017-2021 ACS 5-year estimates:
 - All 5-year data products
 - Narrative Profiles
 - ACS Data Tools: data.census.gov, API, QuickFacts, My Tribal Area



The American Community Survey Upcoming ACS Releases



2017-2021 ACS 5-Year Release	
Data Products	Release
5-Year Public Use Microdata Sample (PUMS)	January 26, 2023
5-Year Variance Replicate Estimates	January 26, 2023
Selected Population Tables (SPT) and American Indian and Alaska Native Tables (AIANT)	No later than June 2023



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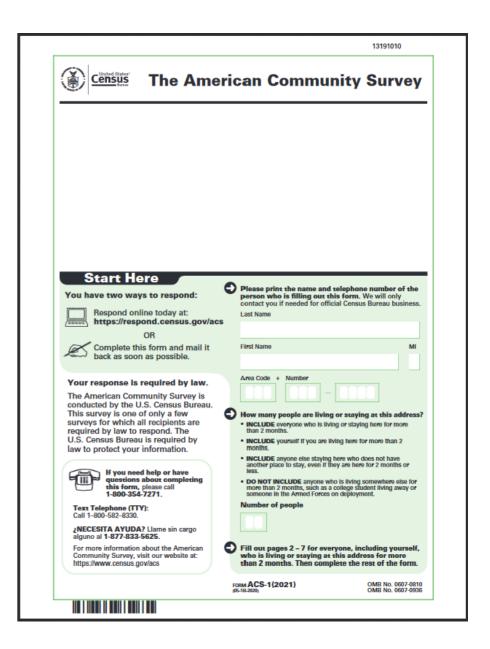


The American Community Survey The Foundation

The American Community Survey is on the leading edge of survey design, continuous improvement, and data quality

- The nation's most current, reliable, and accessible data source for local statistics on critical planning topics such as age, children, veterans, commuting, education, income, and employment
- Surveys 3.5 million addresses and informs over \$675 billion of federal government spending each year
- Covers 40+ topics, and supports over 300 evidence-based federal government uses
- Three key annual data releases:
 - 1-year Estimates (for large populations, geographies of 65,000+ population)
 - 1-year Supplemental Estimates (for small populations, geographies of 20,000+ population)
 - 5-year Estimates (for very small populations, geographies down to Census Tracts and Block Groups)





Content Overview

POPULATION		HOUSING
SOCIAL Ancestry Citizenship Citizen Voting Age Population Disability Educational Attainment Fertility Grandparents Language Marital Status Migration School Enrollment Veterans	DEMOGRAPHIC Age Hispanic Origin Race Relationship Sex ECONOMIC Class of Worker Commuting Employment Status Food Stamps (SNAP) Health Insurance Income Industry & Occupation Weeks Worked	Computer & Internet Use Costs (Mortgage, Rent, Taxes, Insurance) Heating Fuel Home Value Occupancy Plumbing/Kitchen Facilities Structure Tenure (Own/Rent) Utilities Vehicles Year Built Year Moved In

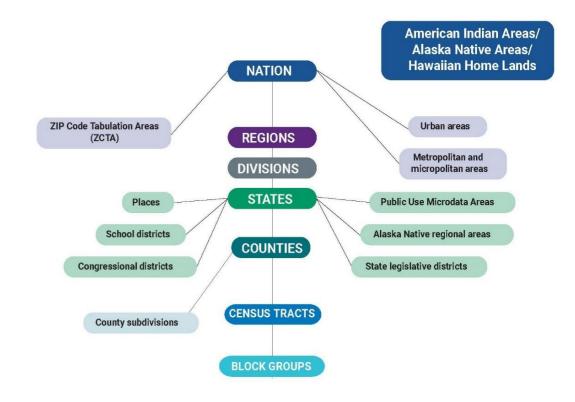


The American Community Survey 5-Year Geography

- Over 620,000 geographic areas
- All geographic areas including Census Tracts & Block Groups



 87 different geography summary levels available





The American Community Survey 5-Year Estimates

- Data spans 60 months, weighted to produce estimates, and controlled for age, sex, race, and Hispanic origin
 - 5-year estimates are NOT an average of 1-year estimates
- Estimates are based on geographic boundaries of the last year in the 5-year period (e.g., 2021)
- Dollar-value estimates are inflation adjusted to the most recent year for the period



The American Community Survey When to Use 5-Year Estimates



When to Use 5-Year Estimates:

- No 1-year estimate is available
- Margins of error for 1-year estimates are larger than desired
- Analyzing data for small population groups
- Comparing various geographies when one or more of them do not receive 1-year estimates



census.gov/programs-surveys/acs/guidance/estimates.html

The American Community Survey Comparing 5-Year Estimates



Comparing 5-Year Estimates:

- Only compare non-overlapping periods (e.g., 2017-2021 and 2012-2016)
- Only compare 5-year estimates to 5-year, not to 1-year
- Comparing across geographies and/or subpopulations
- Recommended to compare percentages, means, medians and rates instead of count totals (if possible)



census.gov/programs-surveys/acs/guidance/comparing-acs-data/2021.html

The American Community Survey Introduction to the American Community Survey



Introduction to the American Community Survey (ACS)

August 24, 2022

Ryan Ricciardi American Community Survey Office

Slides are available at https://www.census.gov/data/academy/webinars/2022/introduction-to-the-american-community-survey.html

This webinar is being recorded. The recording will be available after the webinar.





census.gov/data/academy/webinars/2022/introduction-to-the-american-community-survey.html

The American Community Survey Outline

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- ACS Basics
- Updates for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
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- Q&A



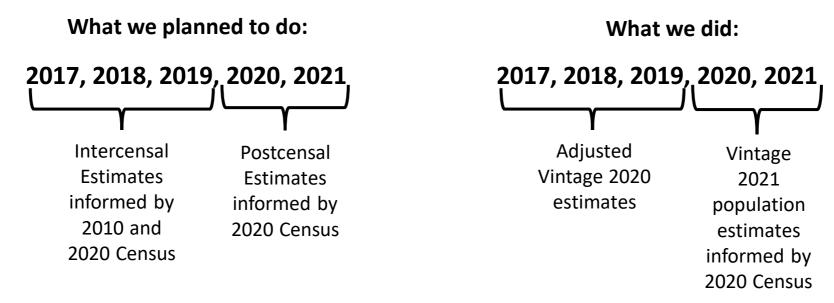
The American Community Survey Population Controls for the ACS

- ACS data are controlled so that the number of housing units and people in certain categories are consistent with the Census Bureau's official estimates from the Population Estimates Program.
- The population controls for the ACS 5-year product are the average of the population estimates across the 5-year period.
- In most years, the ACS simply uses the latest release of postcensal estimates, which are produced for the most recent census forward, for each of the five years.
- If the period straddles a decennial year then the intercensal estimates are used for years prior to the decennial and the postcensal estimates are used for the decennial year forward.



The American Community Survey Population Controls for the 2017-2021 ACS 5-Year

- Due to delays in the 2020 Census processing, the 2010 to 2020 Intercensal Estimates were not available for the 2017-2021 ACS 5-year.
- Our solution was to bridge the 2017-2019 population estimates to form a consistent time series with 2020 and 2021.
- This process made the population estimates used as controls for the 2017-2021 ACS 5-year generally consistent with the 2020 Census.





The American Community Survey New Tables

Table ID	Title
Poverty	
B17101	Poverty Status In The Past 12 Months Of People In Housing Units
Housing	
B25132	Monthly Electricity Costs
B25133	Monthly Gas Costs
B25134	Annual Water And Sewer Costs
B25135	Annual Other Fuel Costs



The American Community Survey Modified Tables

Table ID	Title
Food Stamps	
S2201	Food Stamps/Supplemental Nutrition Assistance Program (SNAP)
Foreign-Born Population	
B05015	Place of Birth By Year For The Foreign-Born Population
Mortgage Status	
B25081	Mortgage Status
S2506	Financial Characteristics For Housing Units With A Mortgage
Poverty	
S1701	Poverty Status In the Past 12 Months



The American Community Survey Modified Tables

Table ID	Title
Income	
CP03	Comparative Economic Characteristics
Housing	
CP04	Comparative Housing Characteristics



The American Community Survey 2017-2021 5-Year Updates



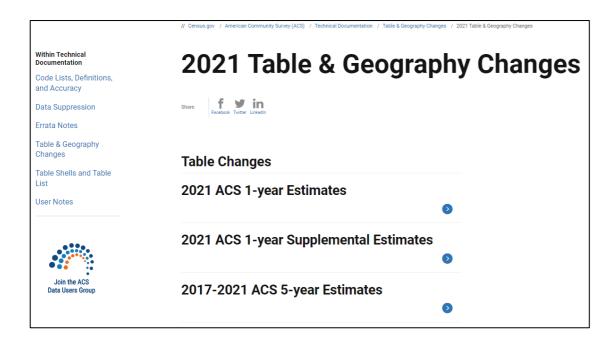


Table Changes:

- New
- Modified
- Deleted

Geography Changes:

- New
- Deleted
- Name & GEOID changes

Highlight: ZCTAs updated with 2020 Census Boundaries



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The American Community Survey 5-Year Data Products

Data Profiles (DP) - 5

- Selected Social, Economic, Housing, Demographic
- Selected Social Characteristics Puerto Rico

Comparison Profiles (CP) - 5

- Comparative Social, Economic, Housing, Demographic
- Comparative Social Characteristics Puerto Rico
- 2017-2021 and 2012-2016

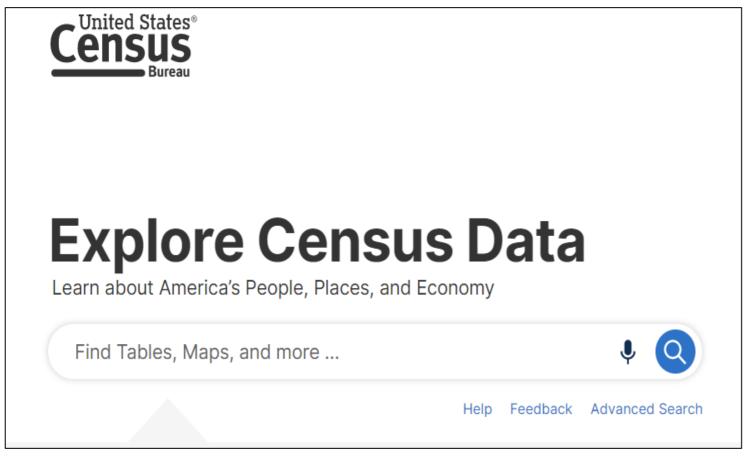
Subject Tables (S) - 83

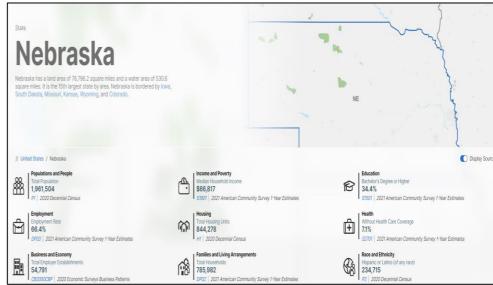
Detailed Tables (B or C) - 1,145

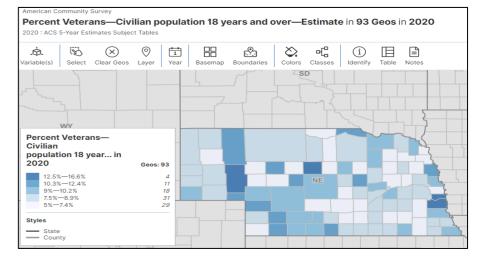
Narrative Profiles



data.census.gov









Narrative Profiles

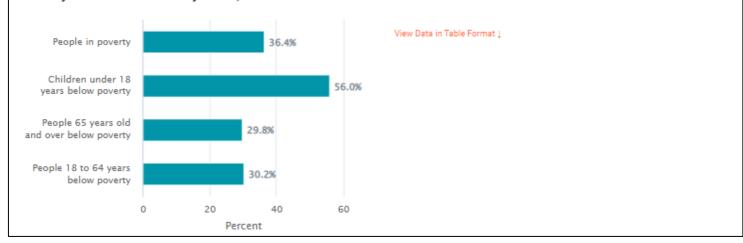


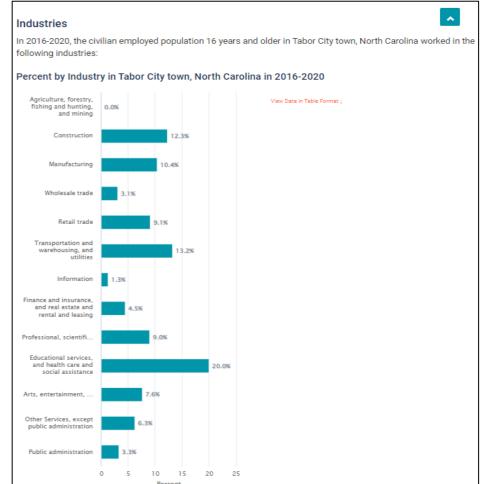
Poverty and Participation in Government Programs

^

In 2016-2020, 36.4 percent of people were in poverty. An estimated 56.0 percent of children under 18 were below the poverty level, compared with 29.8 percent of people 65 years old and over. An estimated 30.2 percent of people 18 to 64 years were below the poverty level.

Poverty Rates in Tabor City town, North Carolina in 2016-2020







The American Community Survey Summary File

- Two formats available for 2021 release:
 - Table-Based (new format; recommended)
 - Sequence-Based (original format)
- Table-Based only format for 2022-beyond releases.
- Table-Based groups estimates and MOE by Table ID
 - File for each table containing data for all geographies
- Complexity of the Summary File reduced with Table-Based format
- Download of large number of Detailed Tables

Custom Tables ACS Summary File

Share **f**

The American Community Survey (ACS) Summary File is a unique data product that includes all estimates and margins of error (MOE) from the Detailed Tables for all geographies published for the ACS. The ACS Summary File allows data users to download statistics for a large number of tables and geographic areas. Currently, there are two methods for downloading the summary file: the new Table-Based Format and original Sequence-Based Format.

Related Information

ACS Summary File Sequence-Based Format

Table-Based Format

For the 2018 data release, the Census Bureau tested a new, Table-Based Format for the ACS Summary File. This format groups the estimates and MOE by table ID, removing the need to merge these files. That is, a file is posted for each table containing both the estimates and MOE for all available geographies. Data users only need to merge in geography labels to create complete tables.

The Table-Based Format is the recommended format for the 2021 data release, and it will be the only format starting with the 2022 data release. Check out the Getting Started and data year tabs below for information and resources. The resources include instructions for merging the geography labels with each table via Excel or programs like SAS and Python.

To share feedback on the Table-Based Format, please send your comments to acso.users.support@census.gov and title your message "ACS Summary File Feedback". We appreciate hearing about what you like or what we can improve.

Changes for the 2021 Data Release

The 2021 data release is the final release of the original Sequence-Based Format; it is available for years 2005 through 2021. More information, including data, instructions and example programs are located on the ACS Summary File Sequence-Based Format page. Starting with the 2022 data release, the Table-Based Format will be the only format available.

setting Started 2021 2020 2019 2018 2017 To 20



census.gov/programs-surveys/acs/data/summary-file.html

Data Tables

Data Tools

Data via API

Data via FTP

Equal Employment

Opportunity (EEO)

Experimental Data

Race/Ethnicity and

American Indian & Alaska Native

Variance Replicate

Estimate Tables

Summary File

The American Community Survey Application Programming Interface (API)

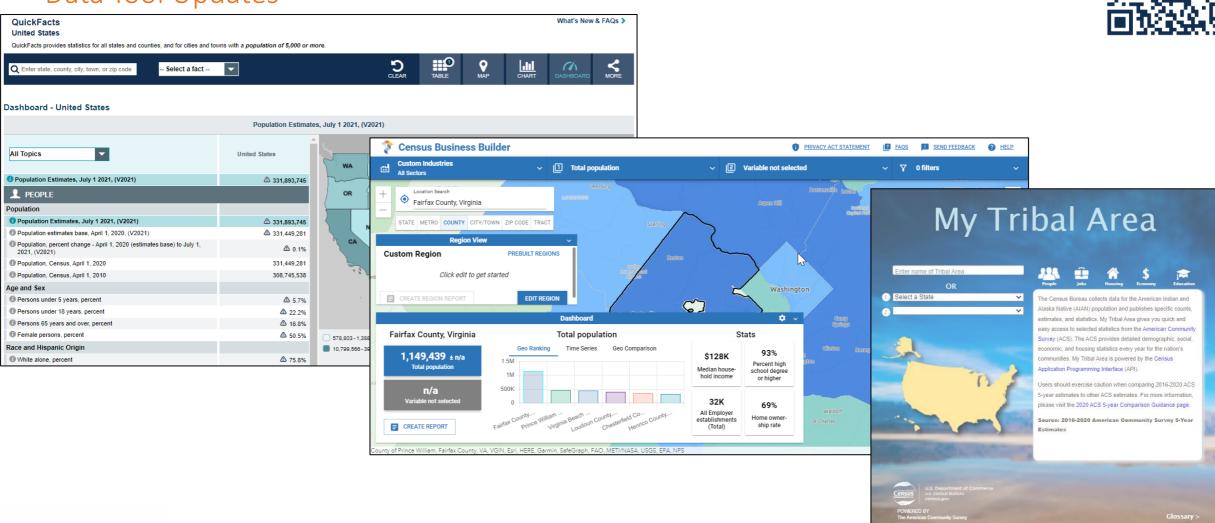


- Enables access to Census Bureau Data for use in programs/applications
- Presents data in standardized way
 - Standardized across multiple datasets = easier learning curve
- Variables used in raw format creating layout of user's choice
- API includes ACS 1-year & 5-year datasets, and Supplemental Data
 - Updated on release day, <u>December 8th</u>



census.gov/developers census.gov/programs-surveys/acs/data/data-via-api.html

Data Tool Updates





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ACS Main Page



Researchers

Educators Survey Respondents

NAICS Codes

About Us

Contact Us

Topics

Data & Maps

Surveys & Programs

Resource Library

Search data, events, resources, and more Q

// Census.gov / Our Surveys & Programs / American Community Survey (ACS)

Within Our Surveys & **Programs**

About the ACS

Respond to the ACS

News & Updates

Data

Microdata

Guidance for Data Users

Geography & ACS

Technical Documentation

American Community Survey (ACS)

The American Community Survey (ACS) helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.



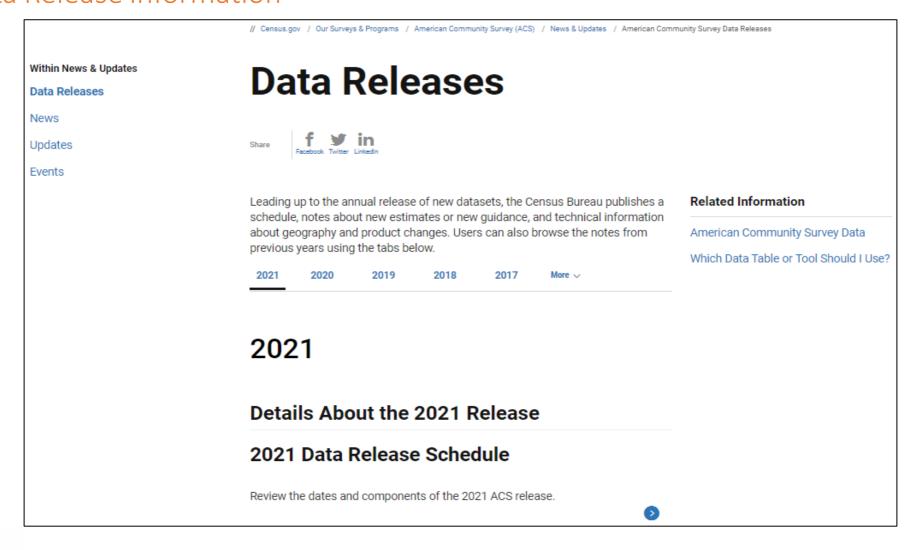
Featured

Respond to the ACS

Learn the different ways to respond to the American Community Survey -- online, by phone, by email. Read our FAQs or call us for more help with the survey.



The American Community Survey 2021 Data Release Information





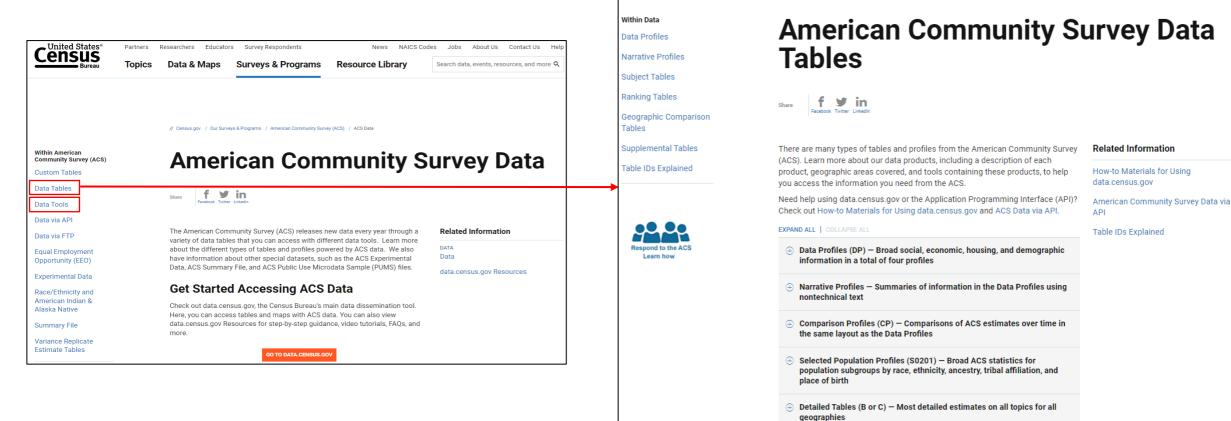


The American Community Survey Data Tables and Tools



// Census.gov / Our Surveys & Programs / American Community Survey (ACS) / ACS Data / ACS Data Tables

Subject Tables (S) — A span of information on a particular ACS subject

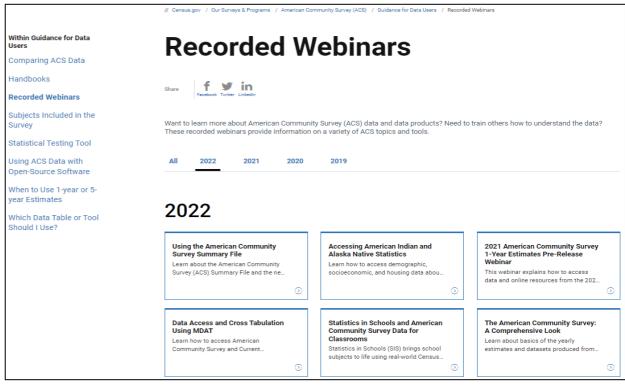




Guidance for Data Users









Technical Documentation





Code Lists, Definitions, and Accuracy

Data Suppression

Errata Notes

Table & Geography Changes

Table Shells and Table List

User Notes



Technical Documentation









The American Community Survey provides various documentation to assist users with our data releases. Click on the links below to learn more about these resources.

Code Lists, Definitions, and Accuracy

View the detailed codes and definitions for variables, statistical testing, and an explanation of sample design, methodology, and accuracy for the ACS.



Related Information

American Community Survey Data

Share Your ACS Data Story

Contact Us



Learn more about issues impacting the American Community Survey, including design, collection, production, and data release.







Information for

Within American Community Survey (ACS)

American Indian and Alaska Native **Populations**

Congress

General Users

Law Enforcement Organizations

Media

Researchers

State and Local Governments



Information by ACS User Type









The U.S. Census Bureau's American Community Survey (ACS) provides a detailed portrait of the social, economic, housing, and demographic characteristics of America's communities. Explore the links below to quickly find resources and information by ACS user type.

American Community Survey Resources for AIAN

Explore resources for Tribal officials, government agencies, and organizations using ACS data about American Indian and Alaska Native populations & geographies.

American Community Survey Resources for Congress

Explore resources for congressional offices helping constituents participate in the ACS and make an important contribution to their community.



General Users





American Community Survey Data

Respond to the ACS

ACS Data Stories-Stats in Action!



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Ask a Question:

• To ask a question, use the "Raise Hand" feature. You will be prompted to ask your question in the order you raised your hand.

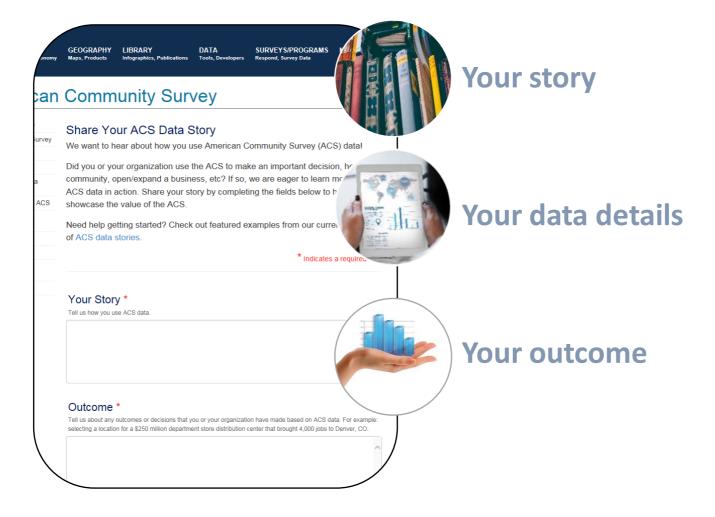
Recording of today's webinar will be available in **Press Kit** and posted on Census Academy at: **census.gov/data/academy/webinars.html**

Press kit available at: census.gov/newsroom/press-kits/2022/acs-5-year.html



Data Tell Stories. Tell us Yours!









- Purpose:
 - Improve understanding of the value and utility of ACS data.
 - Promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
- Webinars and special sessions at professional meetings planned
- Users group website and online community
- Save the Date!
 - ACS Data Users Conference: May 16-18th



acsdatacommunity.prb.org

The American Community Survey Embargo



Tuesday, December 6th

• 2017-2021 ACS 5-year embargo begins at 10 a.m. EST

Embargo Area Press Kit

- Access the embargoed data
- Presentation slides and archived webinar
- News release
- Links to resources on census.gov/acs



The American Community Survey For Further Information

Scan to Sign up for Email Alerts ->



Media

Public Information Office pio@census.gov 301-763-3030

Non-Media

Customer Service Center 1-800-923-8282 or 301-763-INFO (4636) ask.census.gov

Press Kit

census.gov/newsroom/press-kits/2022/acs-5-year.html

Website

census.gov/acs

Source Us

U.S. Census Bureau, 2017-2021 American Community Survey, 5-year estimates



Data Dissemination and Training

✓ Bring our data experts to you.

Request a free data training for your organization.

✓ Receive our <u>Data Gems</u>.

These short "how-to" videos are an easy and quick way to increase your knowledge of Census data. Get them in your inbox!

✓ Get access to our <u>Courses</u>.

You will learn-at-your-own-pace with these video-tutorials designed for different skill levels.

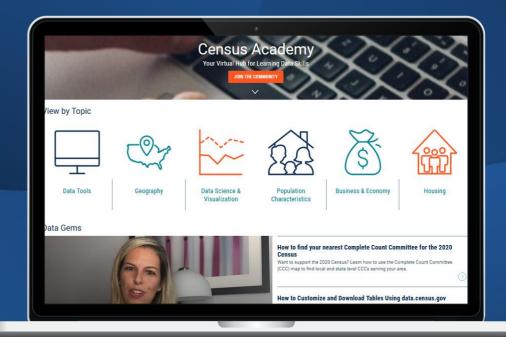
✓ Interact with our instructors via Webinars.

Learn about our data releases and tools while attending these live virtual classes.





Census.gov/Academy



Contact us:

Census.askdata@census.gov 1-844-ASK-DATA

Share your ideas and feedback at census.academy@census.gov

Please complete our brief evaluation Tell us what we could improve and what we did well!

Link to evaluation in chat

